

In re: Beyerer et al.
Appl. No. 09/868,716
Filed: June 20, 2001
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Cont
as a result of the illumination. For purposes of avoiding repetitions the description of the method according to the invention is herewith incorporated by reference.--

In the Claims:

Cancel Claim 35, without prejudice.

Amend Claims 30, 43, and 45 as follows:

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30. (Twice Amended) A method of detecting defects on shot cores or core packets used in the foundry industry comprising the steps of

illuminating each shot core or core packet by at least two light sources from different directions and so as to produce shadows which magnify an area of the core or core packet,

recording by means of a camera each illuminated shot core or core packet and the magnifying shadows resulting from the illumination to thereby produce recorded data which comprise a recorded image, and

processing the recorded data in a computer, and including processing the recorded image by comparing the recorded image with a record of reference data.

43. (Amended) An apparatus for detecting defects on workpieces comprising

at least two light sources for illuminating the workpiece from different directions, with the cameras being positioned so as to produce shadows which magnify an area of the workpiece,

a camera for recording the illuminated workpiece and the magnifying shadows resulting from the illumination, and